



# Recombinant Human Bifunctional purine biosynthesis protein PURH (ATIC)

<b>Product Code</b>	CSB-MP002299HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P31939
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MAPGQLALFS VSDKTGLVEF ARNLTALGLN LVASGGTAKA LRDAGLAVRD  VSELTGFPEM LGGRVKTLPV AVHAGILARN IPEDNADMAR LDFNLIRVVA  CNLYPFVKTV ASPGVTVEEA VEQIDIGGVT LLRAAAKNHA RVTVVCEPED  YVVVSTEMQS SESKDTSLET RRQLALKAFT HTAQYDEAIS DYFRKQYSKG  VSQMPLRYGM NPHQTPAQLY TLQPKLPITV LNGAPGFINL CDALNAWQLV  KELKEALGIP AAASFKHVSP AGAAVGIPLS EDEAKVCMVY DLYKTLTPIS  AAYARARGAD RMSSFQDFVA LSDVCDVPTA KIISREVSDG IAPGYEEEEA  LTILSKKNG NYCVLQMDQS YKPDENEVRT LFGLHLSQKR NNGVVDKSLF  SNVVTKNKDL PESALRDLIV ATIAVKYTQS NSVCYAKNGQ VIGIGAGQQS  RIHCTRLAGD KANYWWLRHH PQVLSMKFKT GVKRAEISNA IDQYVTGTIG  EDEDLIKWKA LFEEVPELLT EAEKKEWVEK LTEVSISSDA FPFPRDNVDR  AKRSGVAYIA APSGSAADKV VIEACDELGI ILAHTNLRLF HH</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ATIC
<b>Protein Names</b>	Recommended name: Bifunctional purine biosynthesis protein PURH Including the following 2 domains: Phosphoribosylaminoimidazolecarboxamide formyltransferase EC= 2.1.2.3 Alternative name(s): 5-aminoimidazole-4-carboxamide ribonucleot
<b>Expression Region</b>	1-592
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes a bifunctional protein that catalyzes the last two steps of the de novo purine biosynthetic pathway. The N-terminal domain has phosphoribosylaminoimidazolecarboxamide formyltransferase activity, and the C-terminal domain has IMP cyclohydrolase activity. A mutation in this gene results in AICA-ribosiduria.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.